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PVRC NEWSLETTER - FEBRUARY 2001

PVRC CALENDAR:

WeeklyWed
BWI Regional weekly breakfast. Wednesdays 7:30 am,
Basil's Deli, Elkridge Landing Rd near BWI.

Monthly
Over-the-Hill Luncheon. TBA. See reference page.

Feb 1 Thu
PVRC/NC meeting at Ryan's in Cary.

Feb 12Mon
Central meeting at the Virginia location. See reference page.

Feb 16-18
ARRL DX CW Contest.

Feb 20Tue
Northwest region meeting in Frederick, MD.

Feb 20Tue
Tidewater Colony meeting night. See reference page.

Feb 24-25
CQ 160m SSB Contest.

Mar 2-4
ARRL 'phone DX Contest.

We regret to preport the passing of two PVRC members.
   Carl E. Anderson, W3XE, of Silver Spring died of cardiac arrest on January 18th while in a hospital for a broken leg. Andy was a regular at the OTH luncheon and on the county hunders net when on one of his many trips.
   W. Scudeer Georgia, Jr, KD3P, of Bethesda died December 26, 2000 at the age of 86. He was licensed as a teen and spent is working life in communications, retiring in 1973 from covert operatations at CIA.

CENTRAL MEETING MINUTES, 1/01 by Brian McGinness, N3OC

Here are the minutes from the January 2001 Central meeting in Temple Hills, MD at the Church of the Nativity:

The meeting was called to order at 7:30 PM after dinner at Topolino's. The following members were in attendance: N3GB, N3HXQ, WK3I, K3ZO, W3LPL, KE3Q, WR3L, N3NT and N3OC.

N3OC gave the president's report. We remain optimistic about the SS and 10m contest results. (late note - does not look so good for SS now from info on the NCCC web site...)

Jay Terleski, WX0B of Array Solutions will hopefully be coming to one of our meetings this spring to talk about stacking HF yagis. More on this as we find out.

Club expenses are up from some unanticipated expenses. The were many more 5m award plaques given out this year. PVRC also is paying the bill for the ZF2SA QSL cards, as well as the cost of setting up the new badges. There is no crisis, but if you haven't sent in a donation in a while please do so.

The PVRC historical documents were found by Scott Affens and are waiting for us to pick them up. That was good news.

Our new webmaster is Pete, N4ZR. Pete is in the process of receiving the web files so he can get it loaded in his system at home. In the meanwhile, we have located an ISP who will host the site and our domain for free. For now the site remains as is on it's current server until we can make the change.

The ARRL CAC has requested input as it reviews the rules for club competition. The PVRC Trustees have formulated a position and suggestions for the CAC on several issues, which is in the process of being written up. Among the issues are the 175-mile club circle.

We are making comments to the CAC on a couple aspects of the way in which the existing circle is implemented, with the intended result to get both PVRC and the ARRL off the hook of having to measure a potential station with hi-tech GPS accuracy. We are hoping the ARRL is just as anxious as we are to avoid having to do this.

Dave, WR3L gave a brief treasurer's report. He advises that he will be releasing a full report in February. He is also making arrangements to get the new badges on line, and the orders will be placed for the ones who have been waiting. As soon as he is ready to accept more orders Dave will let us know.

Dave is also making arrangements for us to sponsor the CQWW CW single-op Caribbean plaque in memory of K3SA. We are also sponsoring three other plaques.

Craig, N3NT distributed as many QSL cards as he could. (I have AA4KD and N4RV to bring to the February meeting - N3OC.)
There being no official program for the evening, war stories were told for the remaining amount of time. George, N3GB made a rare appear-ance to advise he has not been on the air much. Ed, N3HXQ is work-ing on his station, and will be going to KL7 (is there now - N3OC). Rich WK3I worked QRP in the 160 contest. Fred K3ZO recently came back from the Seanet convention, and worked at HS0AC during the contest. Frank gave a report on their CQWW CW multi/multi effort.

Rich gave us an update on his new house project and planned on applying for permits the following day for a half-dozen or so towers! Craig N3NT has been working lots of hours, and hopes to return to contesting later this year.

PVRC/NC MEETING MINUTES 1/4/01 by Pete Soper, KS4XG

The meeting was held at Ryans Family Restaurant in Cary from 5:30-7:30pm on January 4th.

Attendees. Guy K2AV, Brian K3KO, Bob K4HA, Brent KO4PY, Pete KS4XG, Bob N2NFG, Bert N4CW, Nate N4YDU, Gary W2CS. Regrets: K4QPL, WW4M, K4MA, KI7WX

Membership. This is the first meeting of N4YDU Nate Moreschi. After finishing his degree at UNCC Nate has settled down in Youngs-ville where he is a sportswriter for two area newspapers. Nate has gotten active in contesting again after a few years off and is enthusiastic about joining PVRC. Nate is sponsored by N4CW. Welcome Nate! (Nate was the red hot operator during the 1997 Field Day effort that KO4PY organized on the USS North Carolina in Wilming-ton -KS4XG) Chapter membership remains at 37.

Announcements. KU4BP Ed Swiderski in Winston Salem would like to join a PVRC/NC multi-single effort for ARRL DX/phone. Ed has operated at W4WS. Ed can be reached at

N2NFG is still organizing teams for NAQP CW and invites additional participants to join WJ9B and help create a third team. To join in send email to

News around the table. N4CW took part in the 10 meter contest and Stew Perry 160. Bert was pleased with his new 160 antenna, an in-verted V with peak at 90 feet, which enabled a number of Euro-pean contacts and one with a VK6. He's looking forward to the RTTY contest and Sprint.

K4HA has been active with tower work, helping with the erection of the new NX9T Trylon tower (a very smooth operation thanks to a precision crane operator). He also helped get a quad up to 40' at the KO4PY lakeside QTH. Bob is plan-ning to do the upcoming 160 con-test from W2XL in New York and is also preparing to put monobanders up at his home station.

KO4PY now has a quad up over-looking a lake and is having fun with QRP contests. Brent invites every-body to take part in the N.C. QSO Party (1200-2359 UTC Feb 24th and the same Feb 25th).

N2NFG is preparing for the RTTY contest and reports that unexpected logging of land behind him caused 500 feet to disappear from one Beverage. There was speculation about the timber being pre-baled as a result of this. Bob is hoping to buy some of this land and extend his antenna farm by another acre.

K2AV tried to work on his new Trylon but found that no amount of clothing enabled work this time of the year when the wind is blowing. Guy still managed to take part in the 10m contest using his remaining (post storm) antenna, a Gap Titan.

KS4XG expects to close on a 2.85 acre QTH in one month. The plan is to work the ARRL DX ssb contest at the old station and then tear down and move it to the new QTH. Pete hopes to get 80-90' of Rohn 25 up at the new place initially and use existing antennas while planning a second, 120-140' tower (and a crop of monobanders) for next year. The new location is three miles south of K2AV and six miles west of AA4NC. Pete managed to spend 3.5 hours on tower work New Year's day but reports that this would have been impossible with even two miles per hour of wind. Hurry up, Springtime!

K3KO received his 5 Million Award plaque and explained the provisions for endorsements on the plaque. Brian worked the 10m contest low power but has his Acom linear back from repair (shorted tube). He has a set of new spare tubes in hand now (only $200 for a pair!). The three over three 10m stack is working with correct phase now that the gamma matches are both on the same sides but Brian reports performance is not materially better than his quad on this band. It does give him the ability to cover three directions very quickly however. Brian also put up a seventh and last Beverage to the SW. After KS4XG sent the location of his new QTH Brian used some mapping software to create some of the raw data required by the YTAD terrain analy-sis software by Dean Straw. This combined statistical signal arrival angle data with calculation of re-flected (and refracted) signals with a specified antenna arrangement to show how well a given antenna system (or up to 3 systems) provide coverage of a given frequency.

W2CS has been preparing packet systems for future use at the N4AF station. Gary and K2AV are expect-ing to join Howie for a Multi/2 ARRL DX/CW effort. There was a discus-sion of strategies using cross polar-ization to allow multiplier searching on the same band being used for running. The consensus was that careful attention to maintaining true cross polarization was important but separation of the receive and trans-mit antennas is probably necessary also to get enough attenuation when high power is being used.

N4YDU described his current setup in Youngsville, which is an acre lot with plenty of trees. He's running two delta loops at right angles to each other on 10-20 meters using balanced feeders and also has a 40 meter ground plane, an 80 meter vertical and 160 meter inverted L. Nate scored 130k points in CW Sweeps with this setup and said he runs low power for most contests.

Next Meeting. The next meeting will be Thursday, February 1st at Ryans (pleasant patter at 5:30, formal meeting at 6pm).

PVRC NW REGION MINUTES, 1/16 by Ed Steeble, K3IXD, Chairman

The NW region met at Tully's Grill in Frederick on 21 November 2000, the third Tuesday of the Month. The first attendees arrived about 5:30, with most coming between 6:00 and 6:30, all for an informal dinner and good discussions. The meeting began at 7:30.

In attendance were: K3IXD, W3EKT, N3II, N3UN, W3ZZ, N3ND, N3YDT, K8OQL, W8ZA, N4MM, K3WC, K3LP, K3SX, K3UG, NE3H, K3MM + daughter, and N3KTV.

Around the table. K3IXD, Ed, noted that he had K3WC's call wrong as W3' during the last minutes. Ed is getting ready for the VHF contest.

W3EKT, Ed, got his HF beam up on a "rocket launcher, for the CQ WW CW contest. On another "rocket launcher" he has the 6m, 2, 222, and 432 mHz antennas ready for the VHF contest. Ed informed the attendees that K3MQH will not be on for the Jan. VHF contest due to repairs still being underway after a major lighting strike. W3EKT will be borrowing K3IXD's Titan Amp for the CQ 160m CW contest.

N3II, Dave, brought pictures of his bent over tower. Repairs planned in the spring. Meanwhile he has the 6m beam on a 9-ft mast & is working DX with it (e.g., GM and TF).

N3UN, Wayne, is mostly just listen-ing. He was in the RTTY Roundup. He had a Y2K problem with the old PC used for logging.

W3ZZ, Gene, has retired. His station is degrading, on HF he has a problem with the beam and with the 40m antenna, on VHF is 432mHz signal is very weak. He will be on from home in the Jan. VHF contest. Gene plans to be one of the A61AJ operators for the WPX phone.

N3ND, Dan, is relocating from PVRC-NC. Dan is purchasing a home on a 3 acre wooded lot in Finksburg, MD. He had the new PVRC badge, which everyone admired.

N3YDT, Jim, satellite activity is surrently curtailed due to coax problems. He gave up an update on the AO-40 satellite.

K8OQL, Jerry, will be doing CQ160 CW from home. He will be at W8ZA for ARRL DX CW and SSB.

W8ZA, Bob, is getting ready for the ARRL DX contests. The station work has been on tasks within the shack. He provided copies of the 2000 ARRL DX CW and Phone certificates to his operators (10th place, multi-op, 2 xmtr for CW; and 1st place, multi-op, 2 xmtr for Phone).

N4MM, John, sign-in looked like N9MM do due table dents, but his "friends" from PA (NE3H and K3WC) changed it to N9MM/4. He has been ill so he hasn't done much operating lately. And, his FT1000mp died. He plans the NAQP and then the ARRL board meeting in TX.

K3WC, Dusty, has an FT1000 Mark 5. His 71 foot, crank up tower is

still on the ground.

K3LP, Dave, new home on 25 acres is targeted for April occupancy. Dave is building a 20 x 20 radio room with six operating positions, each position will have 240v, 30a, and internet service. There are two, 150 foot towers planned. He has 3000 feet of 7/8 hardline. Dave will be operating from J6 in a contest in either February or March.

K3SX, Sid, will be the 902 and 1296 mHz op at K8GP in the Jan. VHF contest. K8GP will be operating from FM18, Fairfax County, VA.

K3UG, Barry, has purchased a 25 foot boat; a new interest. K3IXD suggested he activate water grids.

NE3H, Joe, was in RTTY Roundup. His 2 antenna stack match quit in the contest. He reported that 40m on Saturday was very good.

K3MM, Ty, spent 9 hours in the RTTY contest. He also operated the NAQP CW and said the conditions were not incredible but were good across all the bands. He will be the K8GP 2m op in the VHF contest. Ty's daughter attended too and got lots of attention.

N3KTV, Jim, put up his tribander on a "rocket launcher" for the ARRL 10m contest.

I did not record the scores because W2GG continues to do a excellent job collecting and posting them to the PVRC reflector and on the PacketCluster, and K3DI insures that the scores are in the newsletter.
SHORT NOTES by Dick Wilder, K3DI

We could use somebody to be the PVRC Newsletter advertising manager. We now have 1.25 pages of advertising but it cost 2.25 pages to publish most issues. In the spring, I do get extra advertising for the jumbo May issue by sending an email or sample copies to selected advertisers in Ham publications and all who advertise in the NCJ. I think one person pushing advertising could turn this rag into a club profit!

Active members receive the monthly PVRC Newsletter and all members (once a member, always a member) receive the jumbo May edition that has the club roster and invitation to the June PVRC reunion-on-the-air. An active member is one in our 175 mile radius contest area who sends in club competition scores or any member who sends in a donation to WR3L. Any member may receive the PVRC Newsletter via email my sending a request to For now, email subscribers will continue to receive the paper editions, if otherwise qualified.

W2GG announced on our reflector that PVRC finished #1 unlimited in the ARRL September VHF QSO Party. ND3F was rover #1, K8GP was multi #2, W4RX SOHP #4, and K3DNE SOHO #6. Congratulations!

Ron, N4MO has had enough of the cold weather and heads south. He'll work the ARRL CW and SSB from HR6 and CQWW WPX from TI7. Be sure to work him & spot him often!

CT 9.57.001 did not support the Cabrillo format in the CQ160CW contest (though '.003 does). CQ will accept such as the ALL and SUM files if your software does not handle Cabrillo. The acknowledgement from my sending the ALL and SUM files said that it would be fine to send in a Cabrillo format as a second submittal. I read this as they will take the old formats but really rather see Cabrillo.

The ARRL requires the Cabrillo format. For now, CQ accepts other formats in some cases. I use CT so I'm all set. But, are there any PVRC members that need software to convert their logs from another contest program into Cabrillo? If there is sufficient interest, I could write a program to convert club competition logs from any contest program into the Cabrillo format. The SS contest has a different Cabrillo format so it would be most easily written as a stand alone program. Please reply to or packet if you need such a conversion program.

S C O R E S by Bob Dannals, W2GG

Changes/additions/deletions to W2GG via packet or
= missing information
CQWW DX CW (FINAL v2 01.17.2001)

CALL	BND	QSO	ZON	CTY	TOTAL
SINGLE OP HIGH POWER - UNASSISTED					
K4ZW		3505	143	441	6,001,768
W3UR		2581	147	454	4,494,879
W4MR		2548	134	417	4,093,930
N4ZR		2627	126	374	3,832,000
W4RX		2127	127	369	3,081,648
K2PLF		1724	117	377	2,465,060
N3JT		1300	117	347	1,742,320
W4YE		1222	108	355	1,619,111
W3HVQ		948	115	341	1,233,024
N4MM		859	113	328	1,075,599
W4ZV	10	2009	37	138	1,021,825
K2UOP		823	98	297	934,175
N3UM		670	96	298	750,176
K4YT		567	108	299	648,758
K4HA		653	86	254	636,820
W3GN		644	96	256	632,544
W4ZYT		584	96	280	611,376
W3IO		554	83	203	454,168
W2YE		459	70	200	256,130
W4BQF		703	(180)		355,680
W4IF		371	68	180	265,856

W4HJ		303	65	194	225,848
W3AZ		482	33	121	213,290
K3SV	80	563	26	86	169,904
NT4D		260	44	142	141,360
W4NF		182	13	38	26,656
W4SD		106	##	##	26,058
K1KO		74	##	##	10,373
KS4XG		36	15	31	4,738

SINGLE OP LOW POWER - UNASSISTED

N1WR		1192	108	331	1,514,166
WJ9B		1126	92	283	1,194,750
K2YWE		768	98	307	842,400
KC8FS		786	96	271	822,080
W3UJ		696	75	262	667,597
NY3M		654	91	244	620,085
N4MO	15	977	36	121	445,723
N3UN		402	85	205	325,670
K7CMZ		373	75	203	278,000
K1EFI		411	53	177	267,030
WM3T		351	67	182	240,285
W3CP	10	383	28	102	143,910
W4HM		239	66	153	139,284
K3DSP		256	56	136	135,168
K6ETM		###	62	118	104,040
AA4KD		205	51	114	92,895
WB4DNL		139	62	109	63,783
WX4DX		74	31	45	12,768

SINGLE OP QRP - UNASSISTED

K3SWZ	10	416	29	102	155,628

SINGLE OP ASSISTED

N3RR		2285	164	591	4,970,165
N3AM		2050	143	501	3,826,648
K4MA		2020	150	496	3,696,412
K2PLF		1724	117	377	2,465,060
K3KO		820	129	385	1,203,274
W3EKT		763	124	407	1,155,987
K3SX		760	122	344	978,134
NE3H		619	95	268	635,976
K3UG		521	(312)		463,320
W3OU		238	72	108	163,920
W3UL		212	49	135	103,960

MULTI - SINGLE

K4JA		3966	171	613	9,077,936
N4RV		1958	158	515	3,797,739

MULTI - MULTI

W3LPL		9733	197	777	26,768,442
W4MYA		5630	179	672	13,724,928

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NY4A      6064 163 554 12,030,543
NR4M      4753 165 582 10,242,864
W8ZA      2324 148 505  4,299,352
K3DI      1284 109 379  1,792,424

DXPEDITIONS
ZF2SA     2705  98 256  2,136,390
HS0AC    (4019 158 427)   487,358
- - - - - - - - - - - - - - - - - -
 69 LOGS - CW         149,111,168
 71 LOGS - SSB        100,112,533
      GRAND TOTAL:    249,223,701
- - - - - - - - - - - - - - - - - -
OPERATORS (non-PVRC):
HS0AC   K3ZO (plus 10 non-PVRC)
K3DI    W3UL (VE3GLO) K3DI
K4JA    W4JVN K9GY K4JA (K9JY)
N4RV    N4RV N4RA K4VV
NR4M    NR4M K7SV K4GMH K4EU K1SE WA4JUK K4EC
NY4A    K2AV K7GM N4AF W2CS
W3LPL   K1HTV AI3M W3LPL N3OC K3KU KT3Y
         KD4D W2GG ND3F K3RA ND3A K3RV K3MM WR3Z
W4MR    N4CW at AA4NC QTH
W4MYA   W4DR W4HZ W4MYA WA4QDM WX3B
         WK4Y WU4G (K4WMA N0NM-3DA0CA WA4PGM)
W8ZA    K8OQL N8II W8ZA WD3A (KO3GA)
ZF2SA   K3SA


ARRL 160 CONTEST (FINAL2 01.11.2001)


CALL     QSO  SEC  DX    TOTAL


**  SINGLE OP HIGH POWER
W4MYA    1171  76  25  246,238
N4AF      890  68  26  174,182
K2UOP     773  67   8  117,750
K3SV      674  54   8   85,250
W3GN      642  60   5   84,435
W4YE      565  64   3   72,896
N4CW      532   (61)    65,453
K8OQL     483  55   2   55,404
N3HUV     408   (51)    42,228
W3SO      364  53   4   42,180
K4MA      351  51   7   41,934
W4HJ      357  53   4   41,382
N3UM      260  50   3   28,249
W3HVQ     209  50   3   22,631
K1KO      125  ##   1   10,373
K4IX       95   (44)     8,624
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W3PP	101	36	2	7,904
KS4XG	53	29	0	3,074

** SINGLE OP LOW POWER

N2NFG	725	64	5	101,085
WJ9B	546	61	3	70,464
N4MM	297	58	5	38,367
W2GG	315	47	3	31,950
W3CP	306	(50)		31,050
AD3F	186	##	#	19,584
WA4QDM	218	(42)		18,312
N3UN	138	40	1	11,439
W4VC	145	35	0	10,225
K3DSP	139	34	0	9,452
WM3T	106	(36)		7,740
WX4DX	85	30	2	5,728
N3WK	70	(26)		3,640
W4HM	60	(29)		3,567
W3OU	57	23	0	2,622
N3FX	59	21	0	2,478

** SINGLE OP QRP POWER

WK3I	547	(63)		69,678

** MULTIOP

K4IQ	849	(76)		130,872
W4NF	679	66	3	94,323
W3UR	608	63	12	94,125
W4MR	641	66	6	93,816
K4HA	553	64	5	77,349
K3KO	550	63	6	77,142
K3DI	288	51	2	30,846
K4ZW	261	(52)		27,612
AK3Z	273	43	2	24,840
N3SB	138	40	2	11,844
4U1WB	30	(15)		900

46 LOGS TOTAL 2,251,237

LAST YEAR - 1999

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	logs	score
P V R C	44	2,681,778
FRANKFORD R C	31	1,525,454

Operators (single op plus packet
   unless listed otherwise):

4U1WB AJ3M
K4HA K4MA K4HA
W3SO K4VV at W3YOZ QTH

W4MR AA4NC operator

A search of the logs shows that there were at least 96 PVRC members active during the 10 m contest.

PVRC ARRL 10 m CONTEST RESULTS (FINAL v3 - 01/10/2001)

CALL	QSO'S	STS	DX	TOTAL
SINGLE OP HIGH POWER - MIXED				
W2GG	3386	112	152	2,444,640
W4MYA	2610	(272)		2,132,480
K3ZO	####	###	###	1,950,960
K2PLF	1979	111	156	1,537,920
N3OC	1827	(236)		1,333,872
N4ZJ	2010	(236)		1,240,888
K2UOP	1536	(240)		1,110,240
N4MM	720	(235)		521,700
K4VV	480	84	84	261,072
N4ZR	332	(99)		127,710
W4IF	200	(86)		69,144
K3MM	177	(62)		40,796
K2AV	139	46	16	29,016
W3OU	104	(63)		15,876
SINGLE OP LOW POWER - MIXED				
W3UJ	754	92	115	517,500
WK3I	525	(201)		342,504
W3DQ	561	88	87	275,450
KC8FS	508	(164)		266,008
K3DSP	562	85	88	262,268
WM3T	333	(134)		131,052
WD3A	321	(134)		120,064
K4HA	253	53	66	93,534
WB4DNL	107	(100)		62,400
KF4OKG	150	(67)		20,502
SINGLE OP QRP POWER - MIXED				
W3PP	640	93	100	371,332
SINGLE OP HIGH POWER - PHONE				
N3HBX	1750	55	79	481,060
KV3R	1277	60	78	352,452
K4YT	###	##	##	125,552
N3FX	520	52	64	120,640
K3IRV	368	(103)		75,808
4U1WB	558	(64)		71,424
K3GV	358	47	47	67,304
SINGLE OP LOW POWER - PHONE				
K3DNE	689	52	63	158,470
N3FNE	344	(88)		60,544
K4TMC	240	(87)		41,760

N4DEN	196	45	41	33,712
N3EYB	192	33	36	26,496
K1SO	98	(51)		9,996
W3LEO	100	16	31	9,400
K3CTR	89	24	18	7,476

SINGLE OP HIGH POWER - CW

W4ZV	2317	60	96	1,445,808
N4AF	1613	59	87	942,576
K3SV	1495	(131)		783,380
W3GN	926	57	64	448,668
WU4G	882	56	70	445,536
N3UM	528	57	65	257,664
W3AZ	364	47	61	157,248
W4HJ	271	(82)		88,888
K1KO	120	35	16	24,480

SINGLE OP LOW POWER - CW

N4MO	1121	(135)		605,880
W3CB	###	59	68	396,240
WJ9B	782	56	65	374,616
W4YE	630	50	70	328,120
K3KO	650	56	69	325,000
W4HM	543	(117)		254,592
WA4QDM	526	49	60	229,336
W3CP	458	(112)		205,184
W4VC	162	(53)		40,824
W3DAD	121	16	27	25,652
K6ETM	###	(50)		16,200

SINGLE OP QRP POWER - CW

KP2/N3IQ	1651	59	66	882,500
WD3P	73	(30)		8,760

MULTI OP

K4JA	2483	(293)		2,225,042
K1SE	2389	115	177	2,175,400
K4MA	2363	(292)		2,056,264
N3RR	2338	114	171	1,958,520
WR3L	1659	106	141	1,391,104
WX3B	2014	101	150	1,355,902
N3II	534	96	118	350,104
K1HTV	496	88	93	250,504
K3IXD	722	52	88	202,160
W3UL	382	(160)		184,320
WK4Y	264	70	127	155,236
K3DI	326	63	85	151,552
KO4MR	181	59	97	56,472
N3KTV	226	30	65	42,940

DXPEDITION

8P9Z	3937	(316)		1,819,843

77 LOGS TOTAL 39,583,537

LAST YEAR - 1999

P V R C 31,844,222
YANKEE CLIPPER C C 22,153,688
FRANKFORD R C 18,385,056

Multiop operators:
Single op plus packet unless
indicated below.

8P9Z K4FJ plus one non-PVRC
K1SE K4EU K1SE K4ZW
K4JA K4JA W4JVN K9GY
K4MA K4MA KI7WX
WR3L K3FT KA3TUL WR3L AA3SC
WX3B WX3B N3SB AK3Z

Guest op:
4U1WB by AJ3M
KP2/N3IQ by ND3F
W2GG at W3LPL

ARRL VHF SS RESULTS (#2 Jan.29.01)

CALL	PWR	BND	QSO	MULTS	TOTAL
SINGLE OPERATOR					
K3DNE	H	6	543	132	113,520
K3IXD	L	5	263	48	17,088
W4RX	L	6	140	45	9,135
KF4QQY	H	3	139	41	5,822
N3II	L	2	118	20	2,360
N4MM	L	2	82	18	1,476
N3AM	L	2	71	13	936
N3UN	L	#	38	##	210
W2GG	L	3	15	7	112
WM3T	L	2	11	8	88
N4CW	L	9	9	3	27
MULTI-OP					
W3SO	H	3	214	55	11,880

12 LOGS TOTAL 162,654

Operators:
W3SO W3TEF K4VV W3YOZ

160M CW RESULTS (#2 - Jan.30.2001)

CALL	QSO	ST	DX	SCORE
SINGLE OP HIGH POWER				

W4ZV	1171	58	52	457,820
W4MYA	1138	58	51	397,632
N4CW	842	56	30	183,782
N3OC	568	53	34	143,898
K3SV	604	##	##	126,984
W4NF	423	47	26	82,198
W4YE	325	50	16	55,704
N4MM	306	46	20	54,978
K2UOP	280	43	23	50,952
K4VV	340	42	14	47,096
N3AM	276	43	8	32,538
K8OQL	204	42	6	22,752
WM3T	192	41	4	19,035
W4HJ	142	35	5	13,280

SINGLE OP LOW POWER

K1HTV	704	54	24	135,876
K7SV	507	49	24	92,415
WJ9B	567	52	14	85,932
W2GG	331	39	13	41,548
K4QPL	195	38	4	17,934
W4VC	184	(41)		16,564
W3CP	158	(40)		15,040
K2YWE	137	35	3	11,742

SINGLE OP QRP

WK3I	545	(62)		75,454

MULTI OPERATOR

NY4A	1036	55	50	356,790
W3UR	598	53	38	177,000
K4MA	496	51	34	119,000
W2XL	746	57	31	87,224
K3KO	450	51	20	81,863
W3HVQ	167	37	22	30,267
WA4QDM	250	42	5	26,367
K3DI	185	49	5	24,246

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31 LOGS CW TOTAL 3,083,911

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Multiop operators:
Single op plus packet unless
indicated below.

NY4A	N4AF W2CS
W2XL	K4HA (plus 1 nonPVRC)

Thanks to K3WX and K4VV for providing SK photos. But, due to a production problem and reproduction scheduling, I am sorry that I am not able to include them. -K3DI

The RFC ad and REFERENCE PAGE were deleted from this electronic edition prior to transmission to N4ZR in April 2001.
---------- K3DI editor